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D Bell

Attorney Docket No. 26114.6
Customer No. 27683

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:
Davis et al.

Serial No.: 09/744,043

Filed: May 14, 2001

For: TIME-OF-FLIGHT MASS
SPECTROMETER

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Group Art Unit: 2881

Examiner: Gurzo, Paul M.

RESPONSE TO OFFICE ACTION

Box Fee Amendment
Commissioner of Patents and Trademarks
Washington, D.C. 20231

Dear Sir:

In response to the Office action mailed October 9, 2002, please consider the following amendments and remarks:

In the claims:

Please amend claims 1, 3, 14, and 15 and add new claims 17-25 as follows:

1. (Amended) A time of flight mass spectrometer for measuring the m/z of ionised particles, the spectrometer comprising: an ion source for generation of said ionised particles, acceleration means for acceleration of said ionised particles so as to form an ion beam, means for sampling from the ion beam such that a share of the beam is detected on each of two detectors such that the time of flights for any or all ions of a given m/z to each of the two detectors is used for the purpose of improving the accuracy of measurement of the m/z values of ions, wherein one of the two detectors is positioned so as to intercept at least a first portion of the ionised particles and to permit a second portion of the ionised particles to continue past the detector.

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02 FC:1202 90.00 CH